

# Mexico National Emissions Inventory

## A new tool for decision making

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# Background

## ■ La Paz Agreement (late 1980s)



# Background

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- Started in 1995
- 1996-2000
  - Capacity building
    - ❖ Training and Workshops
    - ❖ Technical studies (Mobile 5 Mexico, e.g.)
  - Methodology Testing
    - ❖ Manuals
    - ❖ Advanced Workbooks
    - ❖ Inventories for Tijuana and Mexicali



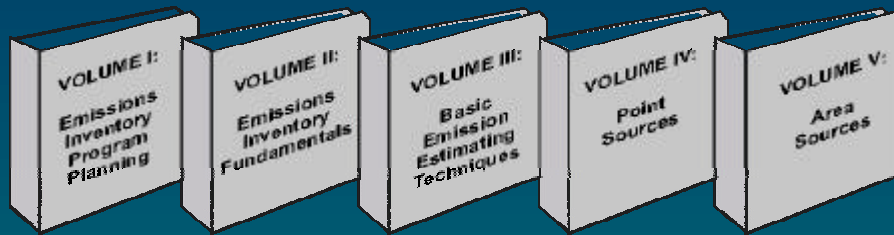
# Background: 1996-2000

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## ■ Objectives

- Capacity building
  - ❖ Training and Workshops
  - ❖ Technical studies (Mobile 5 Mexico, e.g.)
- Methodology Testing
  - ❖ Manuals
  - ❖ Advanced Workbooks
  - ❖ Inventories for Tijuana and Mexicali
  - ❖ Aguascalientes Motor Vehicle Study

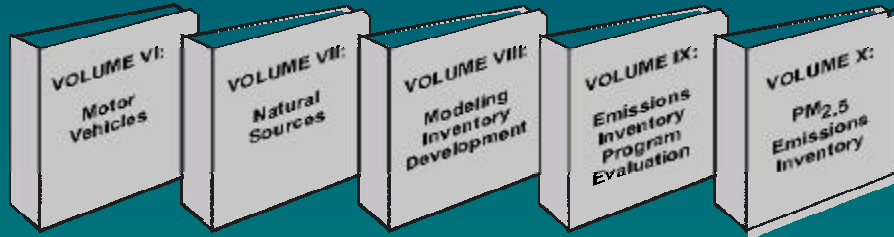
# Background : Emission Inventory Manuals



III. Basic Emissions Estimating Techniques\*

IV. Point Sources\*

V. Area Sources\*



VI. Motor Vehicles\*

VII. Natural Sources \*

VIII. Modeling Inventory Development\*

IX.- Emissions Inventory Progress Evaluation

X. PM<sub>2.5</sub> Emissions Inventory

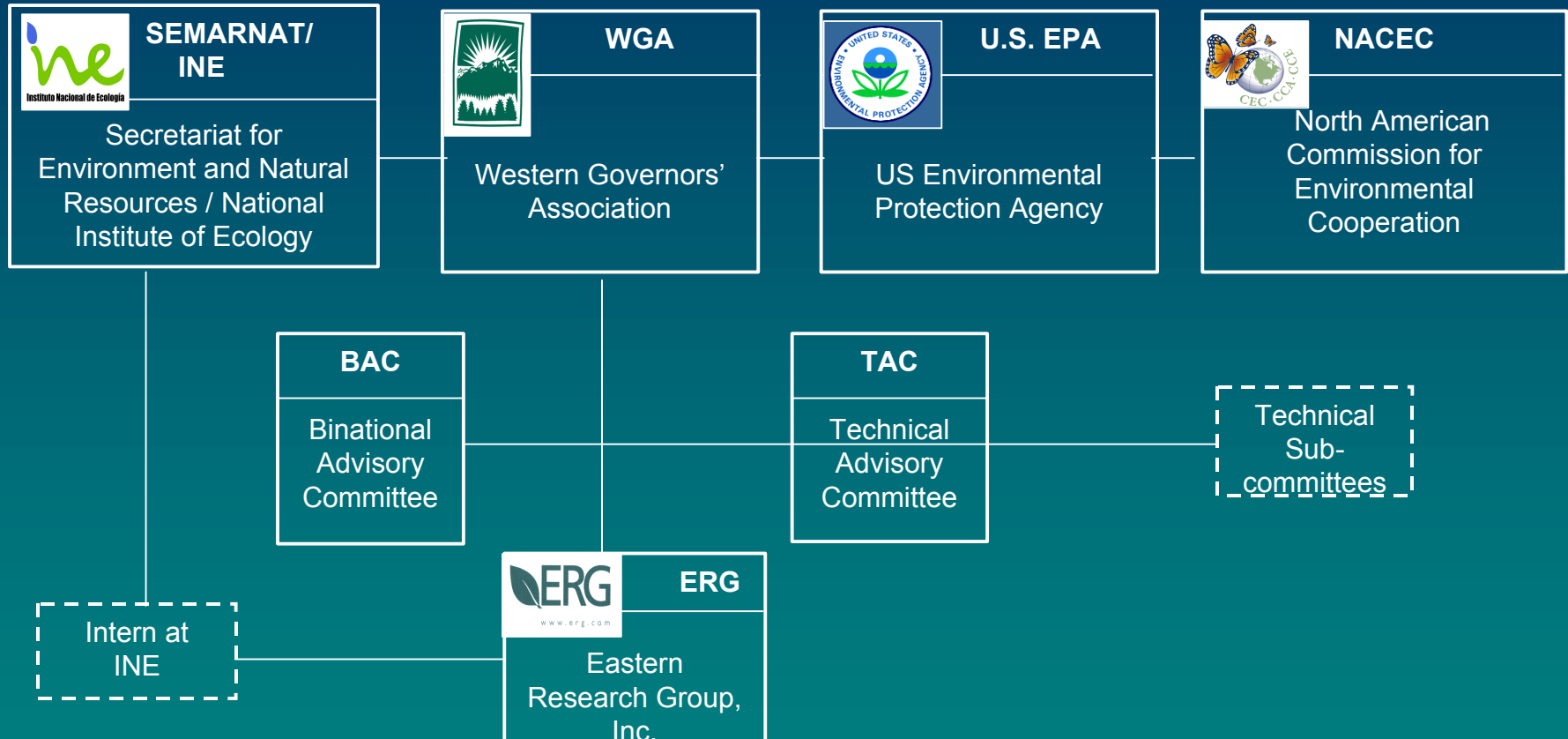
I. Emissions Inventory Program Planning

II. Emissions Inventory Fundamentals\*

\* Concluded



# Organization



# Project Scope

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- Mexico National Emissions Inventory Project (NEI)
- Emissions Inventory Manuals
- Other studies:
  - Technical Studies
  - NONROAD-Mexico Model Development

# Mexico NEI Objectives

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- Develop the first National Emissions Inventory for Mexico to help institutional efforts in the areas of air quality and health impacts.
- Comply with Federal Environmental Law mandate to integrate and update a National Emissions Inventory for Mexico
- Support NACEC efforts in the development of a regional emissions inventory.
- Promote institutional capacity-building.
- Support regional haze compliance in border US states.

# Inventory Scope

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- Point, area, biogenic and mobile sources
- Base year: 1999
- Pollutants of interest:  $\text{NO}_x$ ,  $\text{SO}_x$ , VOCs, CO,  $\text{PM}_{10}$ ,  $\text{PM}_{2.5}$  and  $\text{NH}_3$
- Coverage
  - Phases I, II: Border States (June/03)
  - Phase III: Rest of the country + MCMA (June/04)
  - State and municipal level

# Institutional issues

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## ■ Point sources

- Federal vs. state jurisdiction
- Different reporting requirements
- Different formats

## ■ Strategy

- Participation of SEMARNAT “delegaciones” and local authorities in the TAC
- Close communication with local authorities via the state “delegaciones” (letters and meetings)

# Stakeholders issues

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## ■ Government stakeholders

- PEMEX : fuel production, distribution and use, 4 different companies
- Energy, transport and agriculture secretariats
- National Institute of Statistics, Geography and Information Technology (INEGI)

## ■ Strategy

- Identified key representatives
- Meetings and personal follow-up



# Stakeholder issues

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- Non-government stakeholders
  - Manufacture, distribution and use of products (mainly solvents)
  - No reporting requirement
  - RETC issue
- Strategy
  - Identify and contact leading trade associations
  - Meetings, reports on progress and personal follow-up
  - Agreed on estimation criteria

# Outcomes

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## ■ Technical:

- Valuable product for local authorities
- Useful for universities and research institutions in air quality and health applications
- Primary input for nation-wide air quality management strategies
- Solid baseline to assess control scenarios

# Outcomes

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## ■ Other:

- Better integration within SEMARNAT and with local environmental authorities
- Better communication with other government entities
- Better understanding of the inventory outside SEMARNAT

# Challenges

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- Continue air quality management efforts such as the PROAIRES in several cities
- Assess the quality of existing emissions databases and set priorities for improvement
- Build national capacity for inventory management
- Improve data management at Delegaciones and local governments
- Promote more efficient data collection with trade associations and private stakeholders

# Contacts

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## ■ Technology Transfer Network (USEPA)

US – México Border Information Center on Air Pollution (bilingual)

–English <http://www.epa.gov/ttn/catc/cica/cicaeng.html>

–Spanish <http://www.epa.gov/ttn/catc/cica/cicaspa.html>

## ■ Project website

<http://www.erg.com/mnei>

Id: mexico; password: emissions

## ■ INE's website

[http://www.ine.gob.mx/dgicurg/calair/lineas/inventario\\_nacional.html](http://www.ine.gob.mx/dgicurg/calair/lineas/inventario_nacional.html)

Email: villale@ine.gob.mx; vgaribay@ine.gob.mx



# Thank you

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